

Markov model of a digital stochastic generator

Kuznetsov V., Pesoshin V., Stolov E.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

A stochastic process generator based on a chain of modulo-two adders with asynchronous feedback loops is investigated. The generator dynamics is described by the Erlang equations. A mathematical model of the generated stochastic process is proposed. The implementation of the generator using modern electronic devices is considered. © 2008 MAIK Nauka.

<http://dx.doi.org/10.1134/S0005117908090051>
